

MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES
INVENTOR: ASSAF GOVARI
DOCKET: BIO-131
ATTY: LOUIS J. CAPEZZUTO; PHONE: (732) 524-2218



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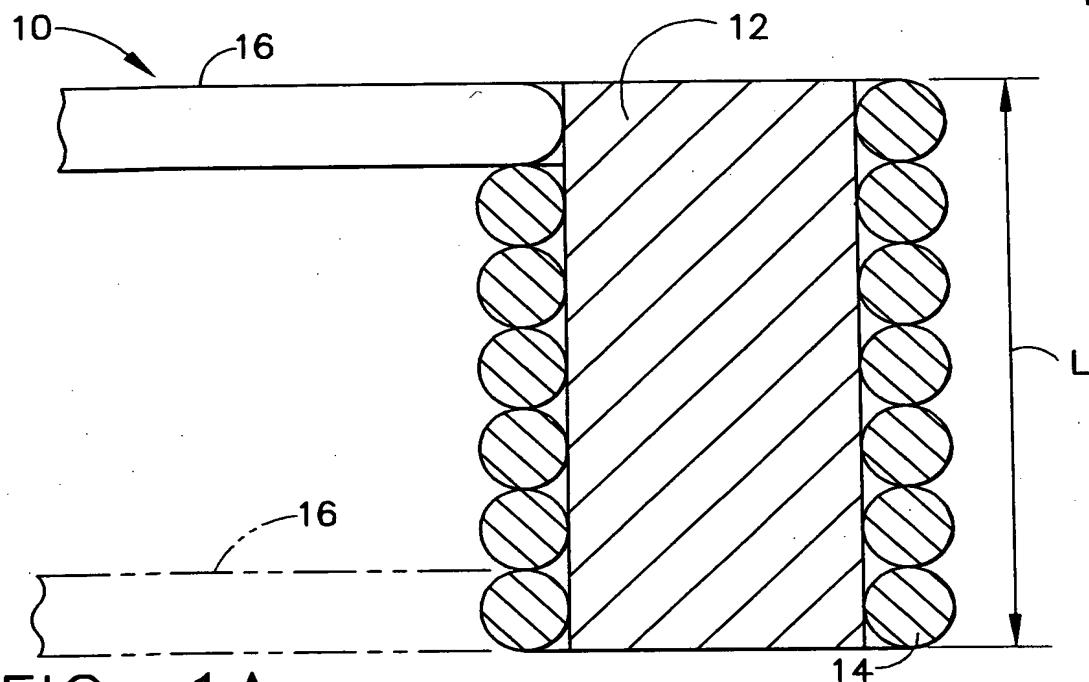


FIG. 1A

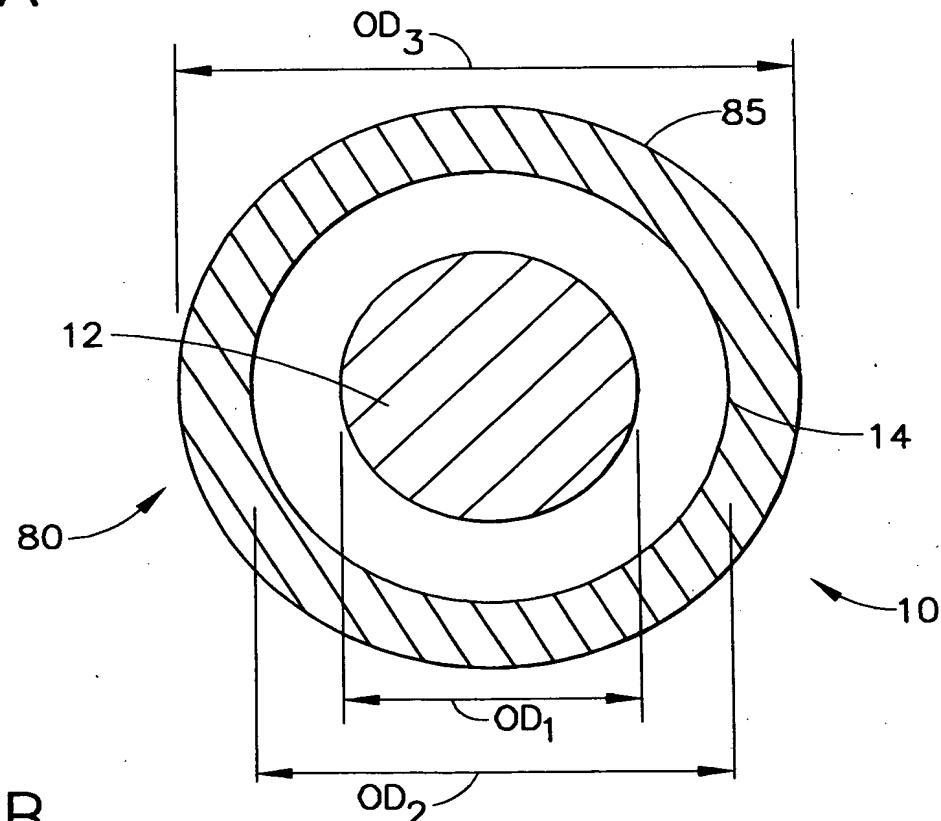


FIG. 1B

MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES
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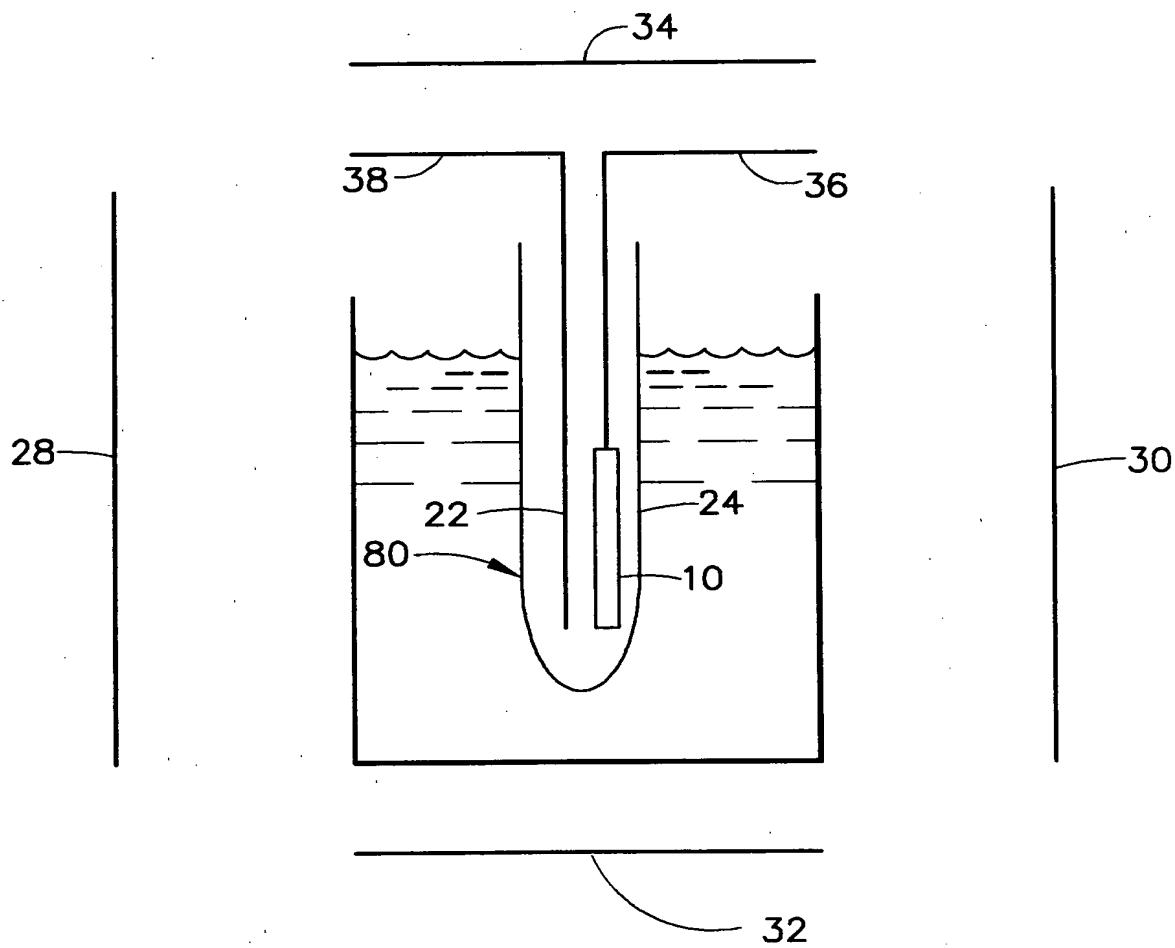


FIG. 2



MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES
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REGRESSING HEAT EXPERIMENT SENSOR 2

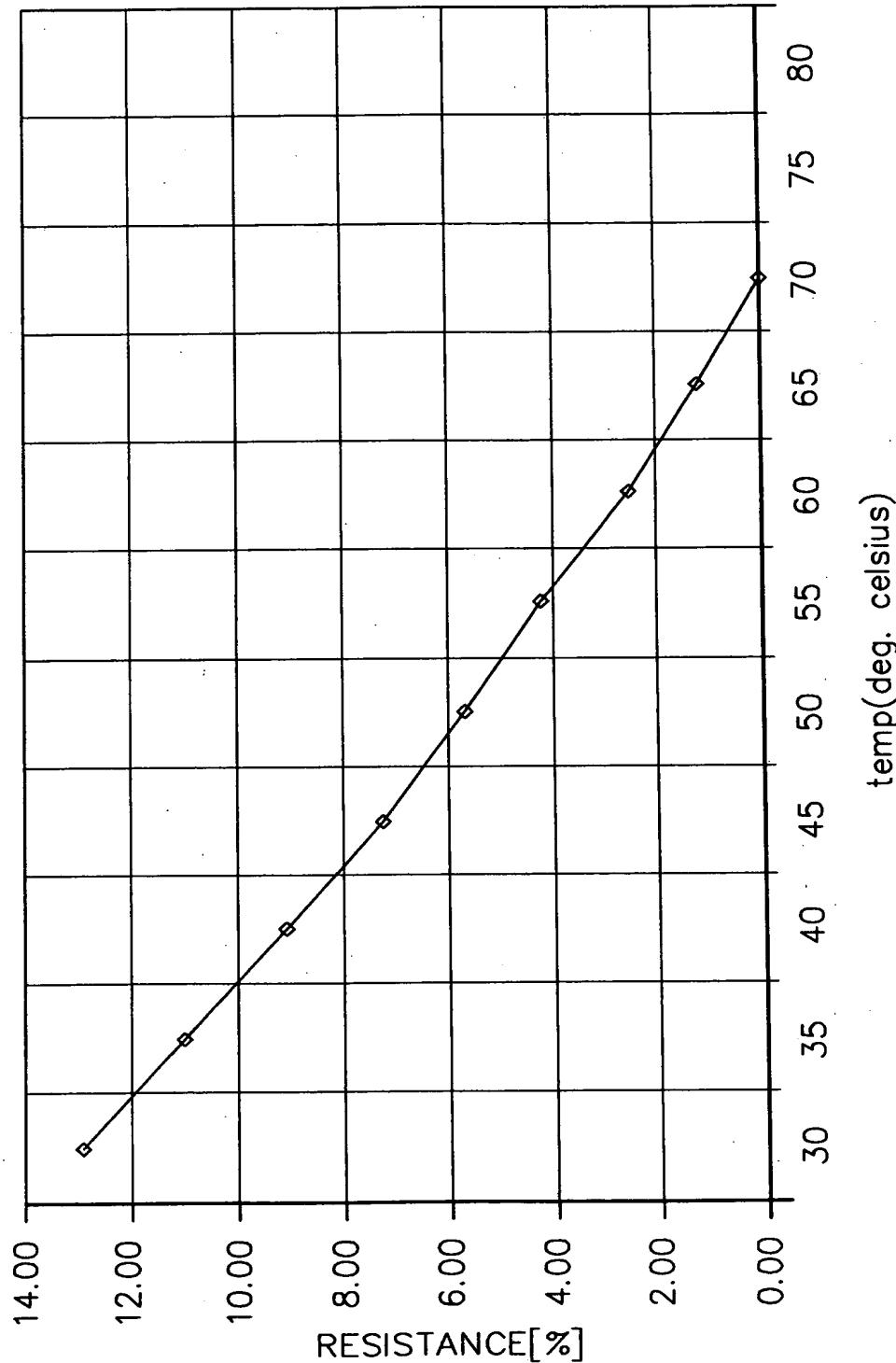


FIG. 3A

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REGRESSING HEAT EXPERIMENT SENSOR 2

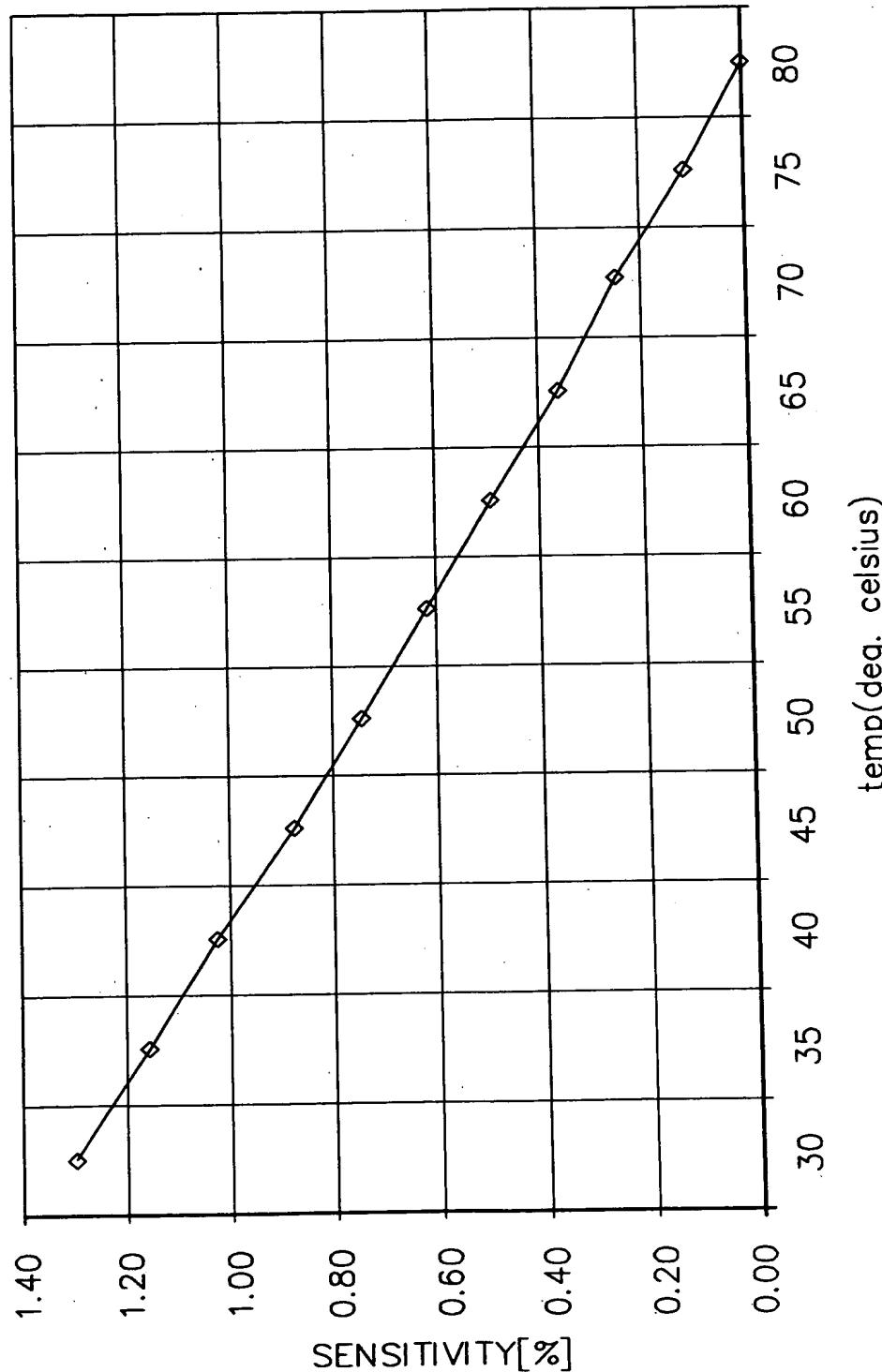
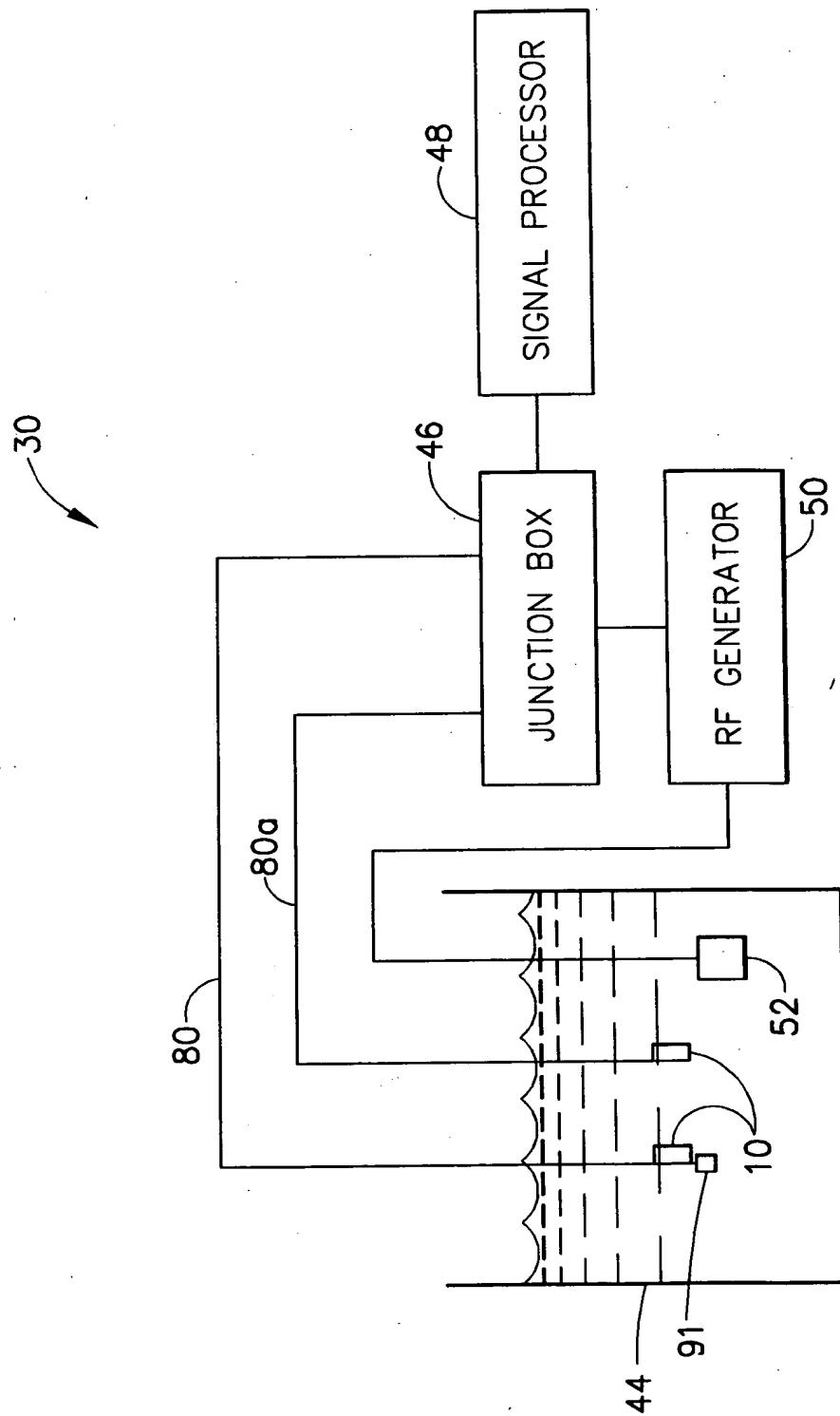


FIG. 3B

MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES
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FIG. 4



MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES
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WEIGAND MODULE—PULSE OUTPUT

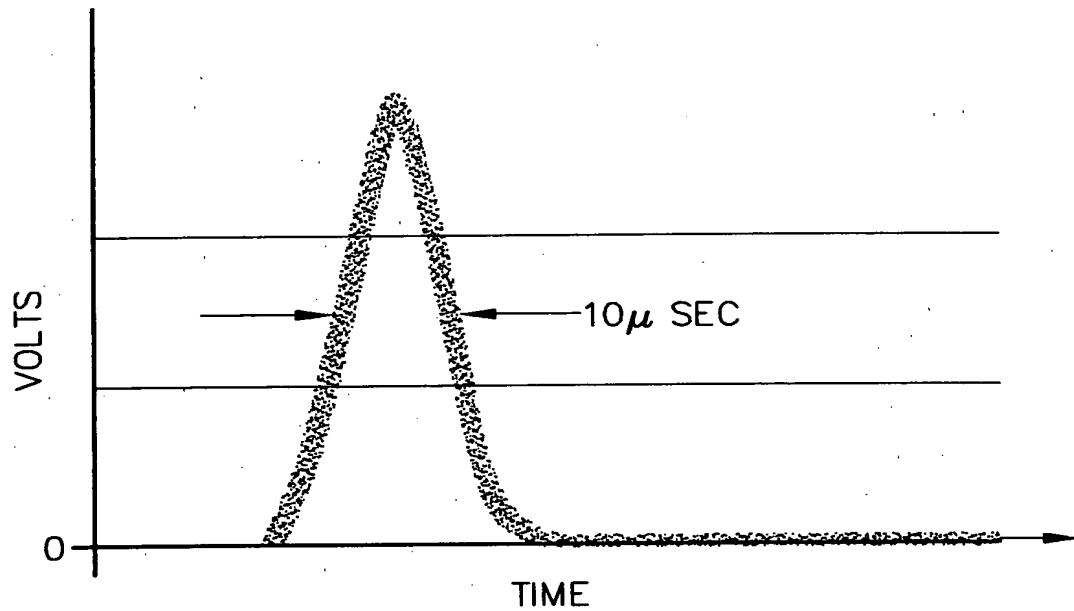


FIG. 5



REGRESSING HEAT EXPERIMENT

	1	2	3	4
sensitivity	resistance	sensitivity	resistance	sensitivity
30	2.6290	1.39	176.30	12.59
35	2.6327	1.25	178.90	10.96
40	2.6356	1.13	181.80	9.19
45	2.6390	1.00	184.40	7.65
50	2.6419	0.89	187.40	5.92
55	2.6457	0.75	190.40	4.25
60	2.6489	0.63	192.80	2.96
65	2.6519	0.51	195.80	1.38
70	2.6567	0.37	198.50	0.00
75	2.6599	0.21		2.4207
80	2.6555	0.00		2.4236
slope	-0.0266	-0.3165	-0.0250	-0.3233
				-0.0289
				-0.3305
				-0.0254
				-0.3279

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	5	6	7	8
sensitivity	resistance	sensitivity	resistance	sensitivity
30	3.3480	1.00	235.7	12.16
35	3.3506	0.92	239.3	10.49
40	3.3533	0.84	242.8	8.90
45	3.3568	0.74	246.7	7.17
50	3.3605	0.62	250.9	5.38
55	3.3642	0.51	254.4	3.93
60	3.3674	0.42	258.7	2.20
65	3.3708	0.32	261.7	1.03
70	3.3749	0.20	264.4	0.00
75	3.3780	0.10	267.9	
80	3.3815	0.00		2.4358
slope	-0.205	-0.3124	-0.0253	-0.2934
				-0.0266
				-0.5271
				-0.0219
				-0.3069

FIG. 6